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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,024	09/23/2005	Akio Sato	125412	4658
25944 7590 10/06/2008 OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 320850			HEINRICH, SAMUEL M	
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			10/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)			
10/550,024	SATO ET AL.			
Examiner	Art Unit			
Samuel M. Heinrich	3742			

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFt 1:36(a), in no event, however, may a raply be timely filed - If NO period for reply is specified above, the maximum statutory period will apply and will expec SIX (6) MONITHS from the maining date of this communication Failure to reply whith the set or extended period for reply with put sets, cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any earned partner them adjustments. See 37 CFt R. 174(b).				
Status				
1) Responsive to communication(s) filed on				
2a) This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-7 is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-7</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9)☐ The specification is objected to by the Examiner.				
10)⊠ The drawing(s) filed on <u>23 September 2005</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
oce the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)				

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (FTO/SE/08)

Paper No(s)/Mail Date 10/26/2005; 06/27/2008.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application 6) Other: __

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,724,299 to Hammeke in view of USPN 5,043,548 to Whitney et al in view of USPN 3,043,548 to Whitney et al in view at view at view at view 3,048 to Whitney et al in view at view at view at view at view at

Hammeke discloses a powder cladding laser nozzle (Front Page) having supply pipe 46, reservoir chamber 38, and passage gap 94.

Whitney et al disclose (Front Page) a laser torch comprising plural powder supply tubes 136.

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JP2891378B2 describes (Abstract and Figures 1 and 2b) a laser welding machine comprising a powder supply nozzle having plural delivery passages 43.

The instant claimed nozzle having plural powder inputs, a reservoir chamber, and plural discharge passages would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the powder delivery to the nozzle and the powder delivery to the workpiece are made more uniform.

The instant dependent claims describe forming steps, and component shapes and sizes, and assembly descriptions which do not impart patentability to the final nozzle apparatus.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,724,299 to Hammeke in view of USPN 4,672,171 to Cusimano et al in view of USPN 5,043,548 to Whitney et al in view of JP2891378B2.

Hammeke discloses a powder cladding laser nozzle (Front Page) having supply pipe 46, reservoir chamber 38, and passage gap 94.

Cusimano et al disclose plural powder inputs 37 and 38, powder chamber comprising 52, and powder discharge passages 49 in a plasma arc torch.

Whitney et al disclose (Front Page) a laser torch comprising plural powder supply tubes 136.

JP2891378B2 describes (Abstract and Figures 1 and 2b) a laser welding machine comprising a powder supply nozzle having plural delivery passages 43.

The instant claimed nozzle having plural powder inputs, a reservoir chamber, and plural discharge passages would have been obvious at the time applicant's invention Art Unit: 3742

was made to a person having ordinary skill in the art because the powder delivery to the nozzle and the powder delivery to the workpiece are made more uniform.

The instant dependent claims describe forming steps, and component shapes and sizes, and assembly descriptions which do not impart patentability to the final nozzle apparatus.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel M Heinrich/ Primary Examiner, Art Unit 3742 Application/Control Number: 10/550,024 Page 5

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